

C17L



● Origin at non-motor side

Ordering method

C17L - 50					SR1-X	20		R			
Model	Lead	Brake	Option	Stroke	Cable length <small>Note 1</small>	Controller	Driver	Usable for CE	Regenerative unit	Input/Output selection	Battery
		No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-motor side	1150 to 2050 100mm pitch	8L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-X TS-X <small>Note 2</small> RDX <small>Note 2</small>	20: 400 to 600W	No entry: Standard E: CE marking	R: RG1 (SR1-X)	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link <small>Note 3</small>	No entry: None Incremental specification B: With battery Absolute specification

Note 1. The robot cable is a standard cable and may be changed to a flex-resistant type (except RDX). See P.423 for more information on robot cables.
Note 2. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).
Note 3. Available only for the slave.

Basic specifications

AC servo motor output (W)	600	
Repeatability <small>Note 1</small> (mm)	+/-0.02	
Deceleration mechanism	Ball screw (Class C10)	
Ball screw lead (mm)	50	
Maximum speed <small>Note 2</small> (mm/sec)	1000	
Maximum payload (kg)	Horizontal	50
	Vertical	10
Rated thrust (N)	204	
Stroke (mm)	1150 to 2050 (100 pitch)	
Overall length (mm)	Horizontal	Stroke+485
	Vertical	Stroke+515
Maximum outside dimension of body cross-section (mm)	W168 x H114	
Cable length (m)	Standard: 3.5 / Option: 5, 10	
Degree of cleanliness	CLASS 10 <small>Note 3</small>	
Intake air (Nl/min)	30 to 90 <small>Note 4</small>	

Allowable overhang Note

Lead 50	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C	A	B	C	A	C		
10kg	4000	2687	3327	10kg	3436	2605	4000	2kg	1200	1200
30kg	3045	872	929	30kg	1169	790	3045	5kg	3000	3000
50kg	2602	509	714	50kg	666	427	2602	10kg	2579	2579

Static loading moment

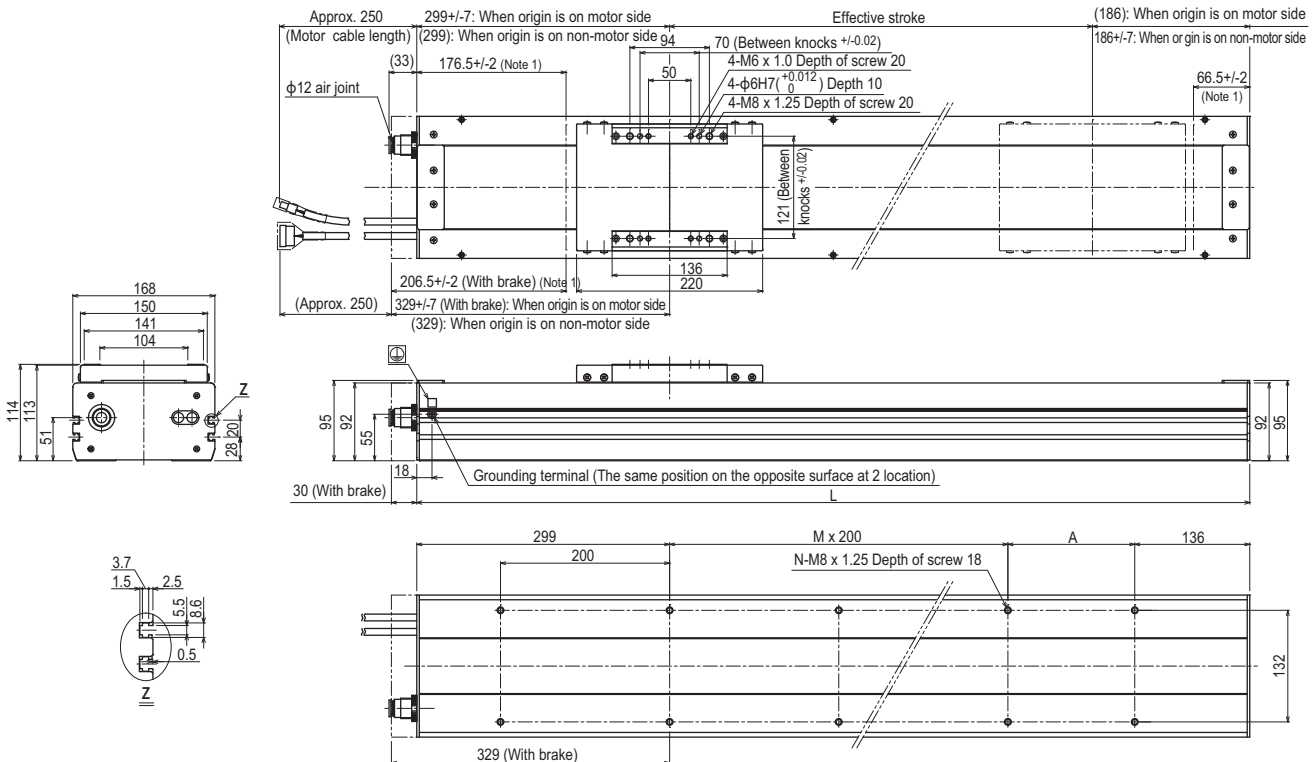
(Unit: N·m)		
MY	MP	MR
1032	1034	908

Controller

Controller	Operation method
SR1-X-20-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X220-R	I/O point trace
RDX-20-RBR1	Pulse train control

Note 1. Positioning repeatability in one direction.
Note 2. When the stroke is longer than 1850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.
Note 3. Per 1cf (0.1um base), when suction blower is used.
Note 4. The necessary intake amount varies depending on the use conditions and environment.

C17L



Effective stroke	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	
L	1635	1735	1835	1935	2035	2135	2235	2335	2435	2535	
A	200	100	200	100	200	100	200	100	200	100	
M	5	6	6	7	7	8	8	9	9	10	
N	16	18	18	20	20	22	22	24	24	26	
Weight (kg) <small>Note 3</small>	39.1	41.2	43.2	45.2	47.3	49.3	51.3	53.4	55.4	57.4	
Maximum speed (mm/sec) <small>Note 4</small>	Lead 50						1000		900	800	
	Speed setting						-		90%	80%	

Note 1. Distance from both ends to the mechanical stopper.
Note 2. Minimum bend radius of motor cable is R50.
Note 3. Weight of models with no brake. The weight of brake-attached models is 1.5 kg heavier than the models with no brake shown in the table.
Note 4. When the stroke is longer than 1850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.